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1 [A stateless approach to connection-oriented protocols](#)

Alan Shien, Andrew C. Myers, Emin Gün Sirer

September 2008

Transactions on Computer Systems (TOCS) , Volume 26 Issue 3

Publisher: ACM [Request Permissions](#)Full text available: [Pdf](#) (1.25 MB)

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 173, Downloads (Overall): 693, Citation Count:

Traditional operating system interfaces and network protocol implementations force some system state to be kept on both sides of a connection. This state ties the connection to its endpoints, impedes transparent failover, prevents denial-of-service attacks, ...

Keywords: Stateless interfaces, stateless protocols

2 [Communications of the ACM: Volume 51 Issue 9](#)

September 2008

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) , [Pdf](#) (8.68 MB)

Bibliometrics: Downloads (6 Weeks): 312, Downloads (12 Months): 392, Downloads (Overall): 4390, Citation Count:

3 [Communications of the ACM: Volume 51 Issue 12](#)

December 2008

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) , [Pdf](#) (6.91 MB)

Bibliometrics: Downloads (6 Weeks): 265, Downloads (12 Months): 300, Downloads (Overall): 4032, Citation Count:

4 [Communications of the ACM: Volume 52 Issue 3](#)

March 2009

Communications of the ACM

Publisher: ACM

Full text available: [Digital Edition](#) , [Pdf](#) (7.04 MB)

Bibliometrics: Downloads (6 Weeks): 182, Downloads (12 Months): 207, Downloads (Overall): 2566, Citation Count:

5 [A Review of the Rationale and Architectures of PJama: a Durable, Flexible, Evolvable and Scalable Orthogonally Persistent Programming Platform](#)

Malcolm Atkinson, Mick Jordan

June 2000

A Review of the Rationale and Architectures of PJama: a Durable, Flexible, Evolvable and Scalable Orthogonally Persistent Programming Platform

Publisher: Sun Microsystems, Inc.

Full text available: [Pdf](#) (455.97 KB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 173, Citation Count: 7

A primary goal of research into orthogonal persistence is to simplify significantly the construction, maintenance and operation of applications in order to save software costs, extend the range of applications and improve user experiences. To test ...

6 [Automatic information extraction from large websites](#)

Valter Crescenzi, Gian salvatore Mecca

September 2004

Journal of the ACM (JACM) , Volume 51 Issue 5

Publisher: ACM [Request Permissions](#)Full text available: [Pdf](#) (1.13 MB)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 223, Downloads (Overall): 3776, Citation Count:

Information extraction from websites is nowadays a relevant problem, usually performed by software modules called wrappers. A key requirement is that the wrapper generation process should be automated to the largest extent, in order to allow for large-scale ...

Keywords: Information extraction, relational model, wrappers

7 Design For Environment: Methodologies, Tools, And Implementation

Junning Sun, Bin Han, Stephen Edward Osire, Hong-Chao Zhang

January 2003

Journal of Integrated Design & Process Science , Volume 7 Issue 1

Publisher: IOS Press

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Design for Environment (DfE) optimizes the relationship and interaction of the economic system and the environmental system, and strives to produce a sustainable development and enterprise integration. The driving force behind DfE includes customers, ...

Keywords: Design for environment, DfE, implementation, tools

8 Ambient intelligence as enabling technology for modern business paradigms

S. Kopácsi, G. Kovács, A. Anutriey, R. Michelini

April 2007

Robotics and Computer-Integrated Manufacturing , Volume 23 Issue 2

Publisher: Pergamon Press, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Nowadays the competition among companies, joined to the environmental protection rules, is so compelling that they should not only be on the top of technology in their area, but also run their business according to life-long models. The emphasis on the ...

Keywords: Ambient intelligence, Extended product, Knowledge-based systems, Maintenance, Product lifecycle management, Service engineering

9 An industrial case study in reconstructing requirements views

Marco Lormans, Arie Deursen, Hans-Gerhard Gross

December 2008

Empirical Software Engineering , Volume 13 Issue 6

Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Requirements views, such as coverage and status views, are an important asset for monitoring and managing software development projects. We have developed a method that automates the process of reconstructing the views, and we have built a tool.

Keywords: Information retrieval, Requirements management, Requirements traceability reconstruction

10 Ambient Intelligence in Product Life-cycle Management

G. Kovács, S. Kopácsi, G. Haldeggger, R. Michelini

December 2006

Engineering Applications of Artificial Intelligence , Volume 19 Issue 8

Publisher: Pergamon Press, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

To fulfil the increasing demands today the short innovation time and the high quality of production itself is not enough in production of goods, but all phases of a product (from idea to recycling) should be managed by advanced tools and means. Nowadays ...

Keywords: Ambient Intelligence, Product Life-cycle Management, Service engineering


11 Real-time garbage collection for flash-memory storage systems of real-time embedded systems

Li-Pin Chang, Tai-Wei Kuo, Shi-Wu Lo

November 2004

Transactions on Embedded Computing Systems (TECS) , Volume 3 Issue 4

Publisher: ACM  [Request Permissions](#)

Full text available:  [Pdf](#) (465.38 KB)

Bibliometrics: Downloads (6 Weeks): 25, Downloads (12 Months): 214, Downloads (Overall): 2183, Citation Count

Flash-memory technology is becoming critical in building embedded systems applications because of its shock-resistant, power economic, and nonvolatile nature. With the recent technology breakthroughs in both capacity & reliability, flash-memory storage ...


Keywords: Embedded systems, flash memory, garbage collection, real-time system, storage systems

12 TCP Extensions for High Performance

V. Jacobsen, R. Braden, D. Borman

May 1992 TCP Extensions for High Performance

Publisher: RFC Editor

Full text available:  Pdf (84.56 KB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Downloads (Overall): 49, Citation Count: 58

This memo presents a set of TCP extensions to improve performance over large bandwidth*delay product paths and to provide reliable operation over very high-speed paths. It defines new TCP options for scaled windows and timestamps, which are designed ...

13 Combined association rules for dealing with missing values

Jaw-Ji Shen, Chin-Chen Chang, Yu-Chiang Li

August 2007 **Journal of Information Science**, Volume 33 Issue 4

Publisher: Sage Publications, Inc.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

With the rapid increase in the use of databases, the problem of missing values inevitably arises. The techniques developed to recover these missing values effectively should be highly precise in order to estimate the missing values completely. The mining ...

Keywords: association rule, data mining, missing value, relational database

14 Economical green product design based on simplified computer-aided product structure variation

Chih-Hsing Chu, Yuan-Feng Luh, I-Kuei Chang, Li-Hsin Chen

September 2009 **Computers in Industry**, Volume 60 Issue 7

Publisher: Elsevier Science Publishers B. V.

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Environmental issues have become an imperative concern for most companies in relation to modern product development. Special procedures have to be taken during the product development process to comply with recent green directives. Product structure ...

Keywords: CAD, Genetic Algorithms, Green product design, Metaheuristics, Product structure


15 Rx: Treating bugs as allergies---a safe method to survive software failures

Feng Qin, Joseph Tucek, Yuanyuan Zhou, Jagadeesan Sundaresan



August 2007 **Transactions on Computer Systems (TOCS)**, Volume 25 Issue 3

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (454.71 KB)

Bibliometrics: Downloads (6 Weeks): 17, Downloads (12 Months): 192, Downloads (Overall): 951, Citation Count:

Many applications demand availability. Unfortunately, software failures greatly reduce system availability. Prior work on surviving software failures suffers from one or more of the following limitations: required application restructuring, inability ...

Keywords: Availability, Bug, Reliability, Software Failure


16 Rx: treating bugs as allergies---a safe method to survive software failures

Feng Qin, Joseph Tucek, Jagadeesan Sundaresan, Yuanyuan Zhou



October 2005 **SOSP '05: Proceedings of the twentieth ACM symposium on Operating systems principles**

Publisher: ACM  [Request Permissions](#)

Full text available:  Pdf (245.29 KB)

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 246, Downloads (Overall): 1091, Citation Count

Many applications demand availability. Unfortunately, software failures greatly reduce system availability. Prior work on surviving software failures suffers from one or more of the following limitations: Required application restructuring, inability ...

Keywords: availability, bug, reliability, software failure

Also published in:

October 2005 **SIGOPS Operating Systems Review** Volume 39 Issue 5

17 Quantifying identifier quality: an analysis of trends

Gawn Lawrie, Henry Field, David Binkley

August 2007 **Empirical Software Engineering**, Volume 12 Issue 4

Publisher: Kluwer Academic Publishers

Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Identifiers, which represent the defined concepts in a program, account for, by some measures, almost three quarters of source code. The makeup of identifiers plays a key role in how well they communicate these defined concepts. An empirical study of ...


Keywords: Program analysis, Software quality characterizations, Source code

18 Supporting objects in run-time bytecode specialization

Reynald Affeldt, Hidehiko Masuhara, Eliene Sumii, Akinori Yonezawa

September 2002 **ASIA-PEPM '02: Proceedings of the ASIAN symposium on Partial evaluation and semantics-based program manipulation**

Publisher: ACM 

Full text available:  Pdf (215.36 KB)

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 11, Downloads (Overall): 152, Citation Count: 1

This paper describes a run-time specialization system for the Java language. One of the main difficulties of supporting the full Java language resides in a sound yet effective management of references to objects. This is because the specialization process ...

Keywords: object-oriented paradigm, partial evaluation, program transformation, specialization


19 BGP Route Flap Damping

C. Villamizar, R. Chandra, R. Govindan

November 1998

BGP Route Flap Damping

Publisher: RFC Editor

Full text available:  Txt (86.40 KB)

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 1, Downloads (Overall): 16, Citation Count: 15

A usage of the BGP routing protocol is described which is capable of reducing the routing traffic passed on to routing peers and therefore the load on these peers without adversely affecting route convergence time for relatively stable routes. This ...

20 An empirical study of rules for well-formed identifiers. Research Articles

Dawn Lawrie, Henry Feld, David Sinkley

July 2007

Journal of Software Maintenance and Evolution: Research and Practice, Volume 19 Issue 4

Publisher: John Wiley & Sons, Inc.





Bibliometrics: Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): n/a, Citation Count:

Readers of programs have two main sources of domain information: identifier names and comments. In order to efficiently maintain source code, it is important that the identifier names (as well as comments) communicate clearly the concepts they represent. ...

Keywords: identifier quality, part of speech, source code analysis

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